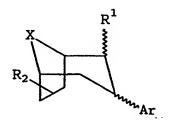
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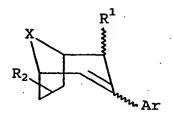
### AMENDMENTS TO THE CLAIMS:

This listing of claims will replace all prior versions, and listings, of claims in the application.

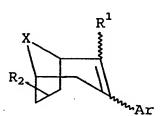
# 1. (Currently amended) A compound having the structural formula:



or



or



wherein:

 $R_1$  = COOR<sub>2</sub>, COR<sub>3</sub>, lower alkyl, lower alkenyl, lower alkynyl, CONHR<sub>4</sub>, or COR<sub>6</sub> and is a or  $\beta$ ;

 $R_2$  = OH or O, is a 6- or 7- substituent, and if  $R_2$  is OH, it is  $\alpha$  or  $\beta$ ;

 $X = NR_3$ , [[,]]  $NSO_2R_3$ , or  $C=CX_1Y$  with the N[[,]] being a member of the ring;

 $X_1 = NR_3$ , or  $NSO_2R_3$ ;

R<sub>3</sub><sup>-</sup> H, (CH<sub>2</sub>)<sub>n</sub>C<sub>6</sub>H<sub>4</sub>Y, C<sub>6</sub>H<sub>4</sub>Y, CHCH<sub>2</sub>, lower alkyl, lower alkenyl or lower alkynyl;

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Y = H, Br, Cl, I, F, OH, OCH<sub>3</sub>, CF<sub>3</sub>, NO<sub>2</sub>, NH<sub>2</sub>, CN, NHCOCH<sub>3</sub>, N(CH<sub>3</sub>)<sub>2</sub>, (CH<sub>2</sub>)<sub>n</sub>CH<sub>3</sub>, COCH<sub>3</sub>, or C(CH<sub>3</sub>)<sub>3</sub>;

 $R_4 = CH_3$ ,  $CH_2CH_3$ , or  $CH_3SO_2$ ;

R<sub>6</sub> = morpholinyl or piperidinyl;

Ar = phenyl- $R_5$ , naphthyl- $R_5$ , anthracenyl- $R_5$ , phenanthrenyl- $R_5$ , or diphenylmethoxy- $R_5$ ;

 $R_5$  = H, Br, Cl, I, F, OH, OCH<sub>3</sub>, CF<sub>3</sub>, NO<sub>2</sub>, NH<sub>2</sub>, CN, NHCOCH<sub>3</sub>, N(CH<sub>3</sub>)<sub>2</sub>, (CH<sub>2</sub>)nCH<sub>3</sub>, COCH<sub>3</sub>, C(CH<sub>3</sub>)<sub>3</sub> where n= 0-6, 4-F, 4-Cl, 4-I, 2-F, 2-Cl, 2-I, 3-F, 3-Cl, 3-I, 3,4-diCl, 3,4-diOH, 3,4-diOAc, 3,4-diOCH<sub>3</sub>, 3-OH-4-Cl, 3-OH-4-F, 3-Cl-4-OH, 3-F-4-OH, lower alkyl, lower alkoxy, lower alkenyl, lower alkynyl, CO(lower alkyl), or CO(lower alkoxy); and

n = 0, 1, 2, 3, 4 or 5;

R<sub>7</sub>= lower alkyl; and

when X = N,  $R_1$  is not  $COR_6$ .

- 2. (original) The compound of claim 1, which is a 1-S enantiomer.
- 3. (original) The compound of claim 1, wherein Ar is a 3a-group.
- 4. (original) The compound of claim 1, wherein Ar is a 3β- group.
- 5. (Currently amended) The compound of claim 1, wherein  $R_1$  is  $CO_2CH_3$  or  $COR_3$ ,  $R_2$  is OH, and X is  $NR_3$ .
- 6. (Currently amended) The compound of claim 1, wherein the compound has an IC<sub>50</sub> SERT/DAT ratio of is-greater than about 10, preferably greater than about 30 and more preferably 50 or more.
- 7. (original) The compound of claim 1, having an  $IC_{50}$  at the DAT of less than about 500 nM, preferably less than 60 nM, more preferably less than about 20, and most preferably less than about 10.

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#### 8. (Cancelled)

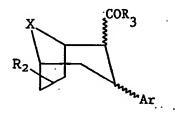
- 9. (Currently amended) The compound of claim 81, wherein X is N, Ar is phenyl, substituted phenyl, diarylmethoxy or substituted diarylmethoxy.
  - 10. (original) The compound of claim 9, wherein the substituent is a halogen.
- 11. (original) The compound of claim 9, wherein Ar is a mono- or di-halogen substituted phenyl.
- 12. (Currently amended) The compound of claim 1 8, wherein the aryl ring is ean be-substituted with one or more halide atoms, hydroxy groups, nitro groups, amino groups, cyano groups, lower alkyl groups having from 1-8 carbon atoms, lower alkoxy groups having from 1-8 carbon atoms, lower alkenyl groups having from 2-8 carbon atoms, or lower alkynyl groups having from 2-8 carbon atoms.
- 13. (original) The compound of claim 12, wherein the aryl ring can be substituted with chloride, fluoride or iodide.
- 14. (Previously presented) The compound of claim 12, wherein an amino group is a mono- or di- alkyl substituted group having from 1-8 carbon atoms.
- 15. (original) The compound of claim 12, wherein the aryl group has a substituent selected from the group consisting of Br, Cl, I, F, OH, OCH<sub>3</sub>, CF<sub>3</sub>, NO<sub>2</sub>, NH<sub>2</sub>, CN, NHCOCH<sub>3</sub>, N(CH<sub>3</sub>)<sub>2</sub>, COCH<sub>3</sub>, C(CH<sub>3</sub>)<sub>3</sub>, (CH<sub>2</sub>)<sub>n</sub>CH<sub>3</sub> where n= 0-6, allyl, isopropyl and isobutyl.

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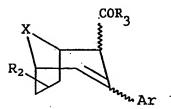
- 16. (Currently amended) The compound of claim 18, wherein the aryl group has a substituent selected from the group consisting of lower alkyl, lower alkenyl and lower alkynyl.
- 17. (Currently amended) The compound of claim 18, wherein the aryl group is substituted with a member selected from the group consisting of 4-F, 4-Cl, 4-I, 2-F, 2-Cl, 2-I, 3-F, 3-Cl, 3-I, 3,4-diCl, 3,4-diOH, 3,4-diOAc, 3,4-diOCH<sub>3</sub>, 3-OH-4-Cl, 3-OH-4-F, 3-Cl-4-OH and 3-F-4-OH.
  - 18. (original) The compound of claim 9, wherein R<sub>2</sub> is OH.

31 Ja - G

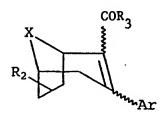
- 19. (Cancelled)
- 20. (Previously presented) The compound of claim 1 having the following structural formula:



or



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where X is NR<sub>3</sub>, R<sub>3</sub> is CH<sub>2</sub>CH<sub>3</sub>, R<sub>2</sub> is OH or O in the 6- or 7- position, Ar is phenyl or naphthyl either of which can be substituted with halogen, alkenyl having 2-8 carbon atoms or alkynyl having 2-8 carbon atoms.

- 21. (original) The compound of claim 20, wherein Ar is substituted with 4-Cl, 4-F, 4-Br, 4-I, 3,4-Cl<sub>2</sub>, ethenyl, propenyl, butenyl, propynyl or butynyl.
  - 22. (original) The compound of claim 20, wherein R<sub>2</sub> is OH.
  - 23. (original) The compound of claim 20 selected from the group consisting of:
- a.  $1-[3\alpha-(3,4-Dichlorophenyl)-7\beta-hydroxy-8-methyl-8-azabicyclo[3.2.1]oct-2-yl]$ propan-1-one.
- b.  $1-[3\beta-(3,4-Dichlorophenyl)-7\beta-hydroxy-8-methyl-8-azabicyclo[3.2.1]oct-2-yl]$  propan-1-one.
- 24. (Currently amended) The compound of claim 1 selected from the group consisting of:
- a. 2-Carbomethoxy-3-(3,4-dichlorophenyl)-6β-hydroxy-8-methyl-8-azabicyclo[3,2,1]oct-2-ene.
- b. 2-Carbomethoxy-3-(2-naphthyl)-6β-hydroxy-8-methyl-8-azabicyclo[3.2.1]oct-2-ene.
- e. 2 Carbomethoxy 3 (4 fluorophenyl) 6β hydroxy 8 methyl-8-azabicyclo[3.2.1]oct 2 ene.
  - d. 2-Carbomethoxy-3-phenyl-6β-hydroxy-8-methyl-8-azabicyclo[3.2.1]oct-2-ene.

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- e. 2-Carbomethoxy-3-(3,4-dichlorophenyl)-7β-hydroxy-8-methyl-8-azabicyclo[3,2,1]oct-2-ene
- f.——(1S)-2-Carbomethoxy-3-(3,4-dichlorophenyl)-7β hydroxy-8-methyl-8-azabicyclo[3.2.1]oct-2-ene.
- g. (1R) 2-Carbomethoxy-3-(3,4-dichlorophenyl)-7β-hydroxy-8-methyl-8-azabicyclo[3,2,1]oct-2-ene.
- h. 2 Carbomethoxy 3 (2 naphthyl) 7 $\beta$  hydroxy 8 methyl 8 azabicyclo[3.2.1]oct 2 ene.
- i. 2-Carbomethoxy-3-(4-fluorophenyl)-7β-hydroxy-8-methyl-8-azabicyclo[3.2.1]oct-2-ene.
  - i. 2-Carbomethoxy-3-phenyl-7β-hydroxy-8-methyl-8-azabicyclo[3.2.1]oct-2-ene.
- k. 2β-Carbomethoxy-3β-(3,4-dichlorophenyl)-6β-hydroxy-8-methyl-8-azabicyclo[3,2,1]octane.
- 1.  $-2\beta$ -Carbomethoxy-3β-(2-naphthyl)-6β-hydroxy-8-methyl-8-azabicyclo[3.2.1]octane.
- m. 2β Carbomethoxy 3β (4-fluorophenyl) 6β-hydroxy-8-methyl-8-azabicyclo[3.2.1]octane.
  - n. 2β-Carbomethoxy-3β-phenyl-6β-hydroxy-8-methyl-8-azabicyclo[3.2.1]octane.
- o.  $2\beta$ -Carbomethoxy  $3\beta$ -(3,4-dichlorophenyl)- $7\beta$ -hydroxy-8-methyl-8-azabicyclo[3.2.1]octane.
- p. (1S)-2 $\beta$ -Carbomethoxy-3 $\beta$  (3,4-dichlorophenyl)-7 $\beta$ -hydroxy-8-methyl-8-azabicyclo[3.2.1]octane.
- q. (1R)-2 $\beta$ -Carbomethoxy-3 $\beta$ -(3,4-dichlorophenyl)-7 $\beta$ -hydroxy-8-methyl-8-azabicyclo[3.2.1]octane.
- r. 2β-Carbomethoxy 3β-(2-naphthyl)-7β-hydroxy-8-methyl-8-azabicyclo[3.2.1]octane.
- s.  $-2\beta$ -Carbomethoxy- $3\beta$ -(4-fluorophenyl)- $7\beta$ -hydroxy-8-methyl-8-azabicyclo[3.2.1]octane.
  - t. 2β-Carbomethoxy-3β-phenyl-7β-hydroxy-8-methyl-8-azabicyclo[3.2.1]octane.

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- u.  $2\beta$ -Carbomethoxy- $3\alpha$ -(3,4-dichlorophenyl)- $6\beta$ -hydroxy-8-methyl-8-azabicyclo[3.2.1]octane.
- v. 2β-Carbomethoxy-3α (2-naphthyl) 6β-hydroxy-8-methyl-8-azabicyclo[3.2.1]octane.
- w. 2β-Carbomethoxy-3α (4-fluorophenyl)-6β-hydroxy-8-methyl-8-azabicyclo[3.2.1]octane.
  - x. 2β-Carbomethoxy-3α-phenyl-6β-hydroxy-8-methyl-8-azabicyclo[3.2.1]octane.
- y.  $-2\beta$ -Carbomethoxy-3a-(3,4-dichlorophenyl)-7 $\beta$ -hydroxy-8-methyl-8-azabicyclo[3.2.1]octane.
- z. (1S)  $2\beta$ -Carbomethoxy  $3\alpha$  (3,4-dichlorophenyl)  $7\beta$ -hydroxy 8-methyl 8-azabicyclo[3.2.1]octane.
- aa. (1R)-  $2\beta$ -Carbomethoxy-3a (3,4-dichlorophenyl)- $7\beta$ -hydroxy-8-methyl-8-azabicyclo[3.2.1]octane.
- bb. 2β-Carbomethoxy-3α-(2-naphthyl)-7β-hydroxy-8-methyl-8-azabicyclo[3.2.1]octane.
- cc. 2β-Carbomethoxy-3α-(4-fluorophenyl)-7β-hydroxy-8-methyl-8-azabicyclo[3.2.1]octane.
  - dd. 2β-Carbomethoxy-3a-phenyl-7β-hydroxy-8-methyl-8-azabicyclo[3.2.1]octane.
- ee.  $2\beta$  Carbomethoxy-3a (3,4-dichlorophenyl) 7a-benzoyloxy-8-methyl-8-azabicyclo[3.2.1]octane.
- ff.  $2\beta$ -Carbomethoxy-3a-(3,4-dichlorophenyl)-6a-benzoyloxy-8-methyl-8-azabicyclo[3.2.1]octane.
- gg. 2β-Carbomethoxy-3α-(3,4-dichlorophenyl)-7α-hydroxy-8-methyl-8-azabicyclo[3.2.1]octane.
- hh.  $2\beta$ -Carbomethoxy-3a  $\beta$ ,4-dichlorophenyl)-6a-hydroxy-8-methyl-8-azabicyclo[3.2.1]octane
- ii.  $-2\beta$ -Carbomethoxy-3a (3,4-dichlorophenyl)-8-methyl-8-azabicyclo[3.2.1]oct-7-one.
- jj. 2β-Carbomethoxy-3β-(3,4-dichlorophenyl)-8-methyl-8-azabicyclo[3.2.1]oct-7-one.

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- kk. 2β Carbomethoxy-3a bis(fluorophenyl)methoxy-7β hydroxy-8 methyl-8-azabicyclo[3.2.1]octane.
- II. 2β-Carbomethoxy-3α-bis(4-fluorophenyl)methoxy-6β-hydroxy-8-methyl-8-azabicyclo[3.2.1]octane.
- mm.—1-[3a-(3,4-Dichlorophenyl)-7 $\beta$ -hydroxy-8-methyl-8-azabicyclo[3.2.1]oct-2-yl]propan-1-one[[.]];
- <u>bnn</u>. 1-[3 $\beta$ -(3,4-Dichlorophenyl)-7 $\beta$ -hydroxy-8-methyl-8-azabicyclo[3.2.1]oct-2-yl]propan-1-one.
- 25. (original) A method for inhibiting 5-hydroxytryptamine reuptake of a monoamine transporter comprising contacting the monoamine transporter with a compound of claim 1.
- 26. (original) The method of claim 25, wherein the monoamine transporter is selected from the group consisting of a dopamine transporter, a serotonin transporter and a norepinephrine transporter.
- 27. (original) A method for inhibiting 5-hydroxytryptamine reuptake of a monoamine transporter in a mammal comprising administering to the mammal a 5-hydroxytryptamine reuptake inhibiting amount of a compound of claim 1.
- 28. (original) A method for inhibiting dopamine reuptake of a dopamine transporter in a mammal comprising administering to the mammal a dopamine reuptake inhibiting amount of a compound of claim 1.
- 29. (original) A pharmaceutical composition comprising a therapeutically effective amount of the compound of claim 1 and a pharmaceutically acceptable carrier.
- 30. (original) A method for treating a mammal having a disorder selected from neurodegenerative disease, psychiatric dysfunction, dopamine dysfunction, cocaine abuse

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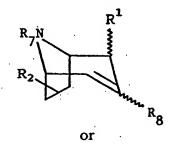
and clinical dysfunction comprising administering to the mammal an effective amount of a compound of claim 1, wherein the Ar is a 3a-group.

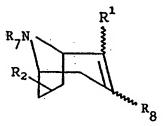
- 31. (original) A method for treating a mammal having a disorder selected from neurodegenerative disease, psychiatric dysfunction, dopamine dysfunction, cocaine abuse and clinical dysfunction comprising administering to the mammal an effective amount of a compound of claim 1.
  - 32. (cancelled)
- 33. (original) A method for treating a neurodegenerative disease in a mammal comprising administering to the mammal an effective amount of a compound of claim 1.
- 34. (original) The method of claim 33, wherein the neurodegenerative disease is selected from Parkinson's disease and Alzheimer's disease.
- 35. (original) A method for treating psychiatric dysfunction in a mammal comprising administering to the mammal an effective amount of a compound of claim 1.
  - 36. (cancelled)
- 37. (original) The method according to claim 35, wherein the psychiatric disorder comprises depression.
  - 38. (cancelled)
- 39. (original) A method for treating dopamine related dysfunction in a mammal comprising administering to the mammal a dopamine reuptake inhibiting amount of a compound of claim 1.

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- 40. (original) The method according to claim 39, wherein the dopamine related dysfunction comprises Attention deficit disorder.
- 41. (original) A method for treating cocaine abuse in a mammal comprising administering to the mammal an effective amount of a compound of claim 1.
- 42. (original) A method for treating clinical dysfunction in a mammal comprising administering to the mammal an effective amount of a compound of claim 1.
- 43. (original) The method of claim 42, wherein the clinical dysfunction comprises migraine.

### 44. (Currently amended)





wherein:

 $R_1$  = COOR<sub>7</sub>, COR<sub>3</sub>, lower-alkyl, lower-alkenyl, lower-alkynyl, CONHR<sub>4</sub>, or CON(R<sub>7</sub>)OR<sub>7</sub> or COR<sub>6</sub> and is  $\alpha$  or  $\beta$ ;

 $R_2$  =  $OR_9$  and is a 6- or 7- substituent;

 $R_3$ = H,  $(CH_2)_nC_6H_4Y$ ,  $C_6H_4Y$ ,  $CHCH_2$ , lower alkyl, lower alkenyl or lower alkynyl;

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 $\underline{Y} = H$ , Br, Cl, I, F, OH, OCH<sub>3</sub>, CF<sub>3</sub>, NO<sub>2</sub>, NH<sub>2</sub>, CN, NHCOCH<sub>3</sub>, N(CH<sub>3</sub>)<sub>2</sub>, (CH<sub>2</sub>)<sub>n</sub>CH<sub>3</sub>, COCH<sub>3</sub>, or C(CH<sub>3</sub>)<sub>3</sub>;

 $R_4 = CH_3$ ,  $CH_2CH_3$ , or  $CH_3SO_2$ ;

R<sub>6</sub> = morpholinyl or piperidinyl;

 $R_8$  = camphanyl, phenyl- $R_5$ , naphthyl- $R_5$ , anthracenyl- $R_5$ , phenanthrenyl- $R_5$ , or diphenylmethoxy- $R_5$ ;

 $R_5$  = H, Br, Cl, I, F, OH, OCH<sub>3</sub>, CF<sub>3</sub>, NO<sub>2</sub>, NH<sub>2</sub>, CN, NHCOCH<sub>3</sub>, N(CH<sub>3</sub>)<sub>2</sub>, (CH<sub>2</sub>)nCH<sub>3</sub>, COCH<sub>3</sub>, C(CH<sub>3</sub>)<sub>3</sub> where n= 0-6, 4-F, 4-Cl, 4-I, 2-F, 2-Cl, 2-I, 3-F, 3-Cl, 3-I, 3,4-diCl, 3,4-diOH, 3,4-diOAc, 3,4-diOCH<sub>3</sub>, 3-OH-4-Cl, 3-OH-4-F, 3-Cl-4-OH, 3-F-4-OH, lower alkyl, lower alkoxy, lower alkenyl, lower alkynyl, CO(lower alkyl), or CO(lower alkoxy);

n = 0, 1, 2, 3, 4 or 5;

 $R_7$ = lower alkyl; and

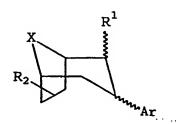
 $R_9$  = a protecting group.

- 45. (Currently amended) The compound of claim 44 selected from the group consisting of:
- a)  $2\beta$ -Carbo-N-methoxy-N-methylamino- $3\alpha$ -(3,4-dichlorophenyl)- $7\beta$ -methoxymethoxy-8-methyl-8-azabicyclo[3.2.1]octane;
- b)  $2\beta$ -Carbo-N-methoxy-N-methylamine- $3\beta$ -(3,4-dichlorophenyl)- $7\beta$ -methoxymethoxy-8-methyl-8-azabicyclo[3.2.1]octane;
- c)  $1-[3\alpha-(3,4-Dichlorophenyl)-7\beta-methoxymethoxy-8-methyl-8-azabicyclo[3.2.1]oct-2-yl]propan-1-one;$
- d)  $1-[3\beta-(3,4-Dichlorophenyl)-7\beta-methoxymethoxy-8-methyl-8-azabicyclo[3.2.1]oct-2-yl]propan-1-one;$
- e) (1R) 2-Carbomethoxy-3-(1'S)-camphanyl-7β-rnethoxymethoxy-8-methyl-8-azabicyclo[3,2,l]oct-2-ene;
- f) (1R)-7β-methoxymethoxy-2-methoxycarbonyl-8-methyl-3-oxo-8-azabicyclo[3.2.1]octane;
- g) (1S)-2-Carbomethoxy-3-(3,4-dichlorophenyl)-7β-(1'S)-camphanyloxy-8-methyl-8-azabicyclo[3.2.1]oct-2-ene; and

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h) (1R) 2-Carbomethoxy 3-(3,4-dichlorophenyl)-7β-camphanoyl-8-methyl-8-azabicyclo[3.2.1]oct-2-ene.

# 46. (New) A compound having the structural formula:



wherein:

 $R_1$  = COOR<sub>7</sub>, COR<sub>3</sub>, lower alkyl, lower alkenyl, lower alkynyl, CONHR<sub>4</sub>, or COR<sub>6</sub> and is  $\alpha$  or  $\beta$ ;

 $R_2 = O$  and is a 6- or 7- substituent;

 $X = NR_3$ , with the N being a member of the ring;

 $R_3 = H$ ,  $(CH_2)_n C_6 H_4 Y$ ,  $C_6 H_4 Y$ ,  $CHCH_2$ , lower alkyl, lower alkenyl or lower alkynyl;

Y = H, Br, Cl, I, F, OH, OCH<sub>3</sub>, CF<sub>3</sub>, NO<sub>2</sub>, NH<sub>2</sub>, CN, NHCOCH<sub>3</sub>, N(CH<sub>3</sub>)<sub>2</sub>, (CH<sub>2</sub>)<sub>n</sub>CH<sub>3</sub>, COCH<sub>3</sub>, or C(CH<sub>3</sub>)<sub>3</sub>;

 $R_4 = CH_3$ ,  $CH_2CH_3$ , or  $CH_3SO_2$ ;

 $R_6$  = morpholinyl or piperidinyl;

Ar = phenyl- $R_5$ , naphthyl- $R_5$ , anthracenyl- $R_5$ , phenanthrenyl- $R_5$ , or diphenylmethoxy- $R_5$ ;

R<sub>5</sub> = H, Br, Cl, I, F, OH, OCH<sub>3</sub>, CF<sub>3</sub>, NO<sub>2</sub>, NH<sub>2</sub>, CN, NHCOCH<sub>3</sub>, N(CH<sub>3</sub>)<sub>2</sub>, (CH<sub>2</sub>)nCH<sub>3</sub>, COCH<sub>3</sub>, C(CH<sub>3</sub>)<sub>3</sub> where n= 0-6, 4-F, 4-Cl, 4-I, 2-F, 2-Cl, 2-I, 3-F, 3-Cl, 3-I, 3,4-diCl, 3,4-diOH, 3,4-diOAc, 3,4-diOCH<sub>3</sub>, 3-OH-4-Cl, 3-OH-4-F, 3-Cl-4-OH, 3-F-4-OH, lower alkyl, lower alkoxy, lower alkenyl, lower alkynyl, CO(lower alkyl), or CO(lower alkoxy);

n = 0, 1, 2, 3, 4 or 5; and

R<sub>7</sub>= lower alkyl.

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- 47. (New) The compound of claim 46, which is a 1-S enantiomer.
- 48. (New) The compound of claim 46, wherein Ar is a 3a-group.
- 49. (New) The compound of claim 46, wherein Ar is a  $3\beta$  group.